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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/045,955	ALAGAR ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Roberta A Stevens	2665			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the d	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tiry within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowa	☐ This action is FINAL . 2b) ☐ This action is non-final.				
Disposition of Claims		•			
 4) Claim(s) 1-39 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) 13-18 is/are allowed. 6) Claim(s) 1,2,6-8,10-12,19,22-24,26-29,31-34 at 7) Claim(s) 3-5,9,20,21,25,30 and 35 is/are object 8) Claim(s) are subject to restriction and/or 	wn from consideration. and 36-39 is/are rejected. Sted to.				
Application Papers	•	•			
9)☐ The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc))☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	= ' '				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:	atom pphoduon (i 10-102)			

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 6-7, 10-12, 19, 22, 23, 26-29, 31-34 and 36-39 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu (U.S. 5914798).
- 3. Regarding claim 1, Liu teaches (figs. 5) a system re-routing signals from an affected optical path in an optical network, comprising: a first node configured to generate a message upon detecting a condition indicating that the signals from the affected optical path need to be re-routed via a protection path to the first node, configured to, upon generating the message, reserve a wavelength in the protection path, wherein the wavelength corresponds to the signals from the affected optical path so as to allow the signals from the affected optical path to be re-routed via the protection path (col. 4, lines 45-55); at least one intermediate node configured to receive and transmit the message (col. 4, lines 56-67); and a second node configured to receive the message from the intermediate node and receive the wavelength in the protection path based on the information provided in the message, upon receiving the message, generating an acknowledgment message to be transmitted to the first node via the at least one intermediate node (col. 5, lines 1-10).

4. Regarding claim 2, Liu teaches (col. 5, lines 29-55) the intermediate node to reserve the wavelength in the protection path based on information provided in the message.

- 5. Regarding claims 6 and 22, Liu teaches (col. 7, lines 25-43) upon receiving the acknowledgment message, the intermediate node and the first node are ready to carry the signals re-routed from the affected optical path via the protection path using the reserved wavelength.
- 6. Regarding claims 7, 23 and 36, Liu teaches (col. 7, lines 25-43) upon receiving the acknowledgment message, and prior to the intermediate node and the first node become ready to carry the signals re-routed from the affected optical path via the protection path, check to determine whether the message is still valid.
- 7. Regarding claims 10, 26, 31 and 37, Liu teaches (figs. 5) the optical network is a bidirectional path switched ring network
- 8. Regarding claims 11, 27, 32 and 38, Liu teaches (col. 6, lines 39-42) the condition is caused by a failure relating to the affected optical path.
- 9. Regarding claims 12, 28, 33 and 39, Liu teaches (col. 6, lines 55-61) the condition is caused by network maintenance to be performed on the affected optical path.

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10. Regarding claim 19, Liu teaches (figs. 5) an optical network, comprising: a destination node configured to receive signals transmitted via an optical path, and generate a message upon detecting a condition indicating that the signals from the affected optical path need to be rerouted via a protection path to the first node, configured to, upon generating the message, reserve a wavelength in the protection path, wherein the wavelength corresponds to the signals from the affected optical path so as to allow the signals from the affected optical path to be re-routed via the protection path (col. 4, lines 45-55); at least one intermediate node configured to receive and transmit the message and reserve the wavelength in the protection path based on information provided in the message (col. 4, lines 56-67); and a source node configured to transmit the signals via the optical path and upon receiving the message from the intermediate node, reserve the wavelength in the protection path so as to allow the signals to be re-routed from the optical path to the protection path and generate an acknowledgment message to be transmitted to the destination node via one or more intermediate nodes (col. 5, lines 1-10).

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11. Regarding claim 29, Liu teaches (figs. 5) a node for use in an optical network, comprising: first control logic configured to: detect a condition indicating that the signals from a first optical path to the node need to be re-routed via a first protection path in order to reach the node (col. 4, lines 45-53); upon detecting the condition generate a message (col. 4, lines 54-57); reserve a first wavelength in the protection path, corresponding to the signal from the first optical path; forward the message to a first neighboring node; and second control logic configured to: receive an incoming message from a second neighboring node; examine the message and reserve a second wavelength in a second protection path, corresponding to the signals from a second

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optical; and generate and transmit an acknowledgment message to the second neighboring node, and if the signals from the second optical path are not originated from the node, forward the message to an adjacent node (col. 5, lines 67)

12. Regarding claim 34, Liu teaches (figs. 6A-6C) an apparatus and method for rerouting signals from an affected optical path in an optical network comprising: detecting a condition at an destination node that is to reserve the signals, the condition indicating that the signals need to be rerouted via a protection path in order to reach the destination node (col. 4, lines 45-55); generating a message that includes information relating to the signals, directing the destination node to reserve a wavelength in the protection path, wherein the wavelength corresponds to the signals so as to allow the signals to be rerouted via the protection path (col. 4, line 56 – col. 5, line 5), forwarding the message via one or more intermediate nodes in a source node that originates the signals; directing each intermediate node which receives the message to reserve the wavelength in he protection path; upon receiving the message at the source node, directing the source node to reserve the wavelength in the protection path and generate and transmit an acknowledgement message to the destination node via the one or more intermediate nodes (col. 5, lines 55-67).

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Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claims 8 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Doverspike (U.S. 6097696)
- 15. As mentioned above Liu teaches all of the limitations of claim 1.
- 16. Liu does not teach message type, first node, second node, wavelength and failure type IDs.
- 17. Doverspike teaches (Table 1) Fault type, termination points, message types, and connect map confirmations. It would have been obvious to one of ordinary skill in the art to adapt this to Liu's system to provide quality of service within the system.

Allowable Subject Matter

- 18. Claims 13-18 are allowed.
- 19. Claims 3-5, 9, 20, 21, 25, 30 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Stevens whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

- 21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 22. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A Stevens Examiner Art Unit 2665

STEVEN NGUYEN PRIMARY EXAMINER